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Moditsinskiy Rabotnik, No 31, and 32, 1949.

SCIENTISTS DESIGN NEW MEDICAL INSTRUMENTS

Dr N. M. Titarenko, department director of the Tuberculosis Sanatorium imeni M. I. Kalinin, has constructed an original pressure aspiration instrument for use in inducing artificial pneumotherax. The instrument has undergone severe clinical tests. Specialists evaluate it highly and the Technical Council of the Ministry of Public Health of the USSR has recommended that the instrument be series-produced.

The worker's association of the experimental shops in the Central Institute of Travmatology and Orthopedics designed an experimental model and set up machinery for producing the instrument.

The Ministry of Public Health USSR awarded Titarenko and chief designer M. M. Sokolov a bonus and the medal "Outstanding in Public Health." A bonus was also given to the group of workers in the institute who took part in the design and construction of experimental models.

New high-quality optical instruments have been tested in the Institute imeni Helmholtz, Moscow. One instrument, a slit lamp with a binocular microscope, was designed for microscopy of the living eye. By means of the strong illumination and magnification, the most minute details of the tissue structure can be observed and diagnosis of diseases of the posterior region of the eye can be made. Two interesting new instruments are the projection perimeter which makes the observation of the slightest changes in the field of vision due to diseases of the contral nervous system possible and the nonreflex ophthalmoscope, which gives a clear, sharp picture of the fundus of the eye.

The electroophthalmoscope makes possible the study of the fundus of the eye with the patient in any position. Moreover, by adjusting the proper parts, the eye may be illuminated and studied in a nonred light.

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the Ear Clinic ineni V. I. Voyachek in diagnosing diseases of the nose. The vibrophone was constructed in the electroacoustics laboratory of the clinic by laryngologist A. I. Titov together with engineer A. I. Kalganov. It receives and amplifies minute vibrations which occur within the organism and transforms them into sound. With the aid of this instrument, doctors can detect the slightest abnormal palpitation (those which cannot be discerned with a stethoscope), detect the earliest fetal pulsation, and determine tumors of the internal organs and bone fissure; according to sound.

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